

ABSTRACT

A phase detection device with low power consumption capable of accurately detecting that an object has moved, and returning from an intermittent energized mode to an always energized mode is provided. The phase detection device according to the present invention comprises a first phase detector for detecting a phase of an object, a second phase detector, a power supply section having an always energized mode for always supplying a power to the first and the second phase detectors, and an intermittent energized mode for intermittently supplying the power to the first and the second phase detectors, and a control section for, in the intermittent energized mode, storing detection phases of the first phase detector and the second phase detector just before shifting to the intermittent energized mode from the always energized mode, and when both detection phases of the first phase detector and the second phase detector change from stored detection phases of the first phase detector and the second phase detector, changing the power supply section from the intermittent energized mode to the always energized mode.